BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Estimate Cost Rs. 2000000.00

ame of Work: Estimate for Maintenance of Water Supply Scheme in Ward No. 06, Byatarayanaprua
ub Division.

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	A) Rewinding								
	Lifting of Submersible pump set as per Soecification and direction **(P. 56 / I. 10.3.21) PRED SR (2012-13)**	Each	5				5	850.00	**4250.00**
	Transportation of pumping machineries **(P. 56 / I. 10.3.19) PRED SR (2012-13)**	Each	5				5	900.00	**4500.00**
	Labour charges (over hauling) **P. No. 56 / I No.10.3.22 PRED SR (2012-13)**	Job	5				5	550.00	**2750.00**
	A) Repairs to Motor: Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6 months. **PRED SR (2012-13) P No. 54 / I. No. 10.1) (Above 10 HP upto 20 HP add Rs.150/- for every ½ HP)**								
	B) 10 HP Motor		2				2.00	4350.00	**8700.00**
	upto 5 HP 2500.00								
	for 10 HP (150 x 10) 1750								
	Total 4350.00								
	B) 12.5 HP Motor		3				3	4787.50	**14363.00**
	upto 5 HP 2500.00								
	for 12.5 HP (150 x 12.5) 2625.00								
	Total 5225.00								
	B) Replacement of Motor Parts:								
	Starter (with one year Guarantee) **P No. 55 / I No. 10.3.3 PRED SR (2012-13)**	No.	5				5	5050.00	**25250.00**
	Rotor (with one year Guarantee) **P No. 55 / I No. 10.3.6) PRED SR (2012-13)**	No.	5				5	4700.00	**23500.00**
	Pump Bowls **P No. 44 / I No. 10.2.1) APRED SR (2010-11)**	No.	40				40	650.00	**26000.00**
	Intermediate Piece (I.P) With IP Leaded Bronxe bush **P No. 44 / I No. 10.2.2) APRED SR (2010-**	No.	5				5	450.00	**2250.00**
	Upper Flange **P. No. 56 / I No. 10.3.7 PRED SR**	No.	5				5	350.00	**1750.00**
	Lower Housing **P. No. 56 / I No. 10.3.10 PRED**	No.	5				5	650.00	**3250.00**
	Carbon Housing **P. No. 56 / I No.10.3.12 PRED**	No.	5				5	475.00	**2375.00**
	Thrust bearing block assembly complete with segment bearing pad.**P. No. 55 / I No.10.3.13**	No.	5				5	1150.00	**5750.00**
	) **Replacement of pump parts:** The following ain components of submersible pump sets quiring replacement.								
	Seal **P. No. 54 / I No.10.2.3 PRED SR (2012-**)	No.	5				5	125.00	**625.00**
	Seal Steel Bush **P. No. 54 / I No. 10.2.4 PRED** (2012-13)	No.	5				5	150.00	**750.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
15	Guide vane **P. No. 54 / I No. 10.2.5 PRED SR**	No.	40				40	175.00	**7000.00**
16	Impe[illegible] Shell moulded with aluminium Bronze) **P. No. 54 / I No. 10.2.6 PRED SR (2012-13)**	No.	40				40	425.00	**17000.00**
17	Discharge outlet (D.O) Bearing D.O Steel Bush **P. No. 55 / I No. 10.2.7 PRED SR (2012-13)**	No.	5				5	445.00	**2225.00**
18	D.O Bearing **P. No. 44 / I No. 10.2.7 PRED SR (2010-11)**	No.	5				5	250.00	**1250.00**
19	Steel Bush **P. No.55 / I No. 10.2.9 PRED SR (2012-13)**	No.	5				5	150.00	**750.00**
20	Allen Screw **P. No.44 / I No. 10.2.9 RDPR SR (2010-11)**	No.	60				60	25.00	**1500.00**
21	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) **P. No. 55 / I** [illegible]	No.	5				5	950.00	**4750.00**
22	Pump Key (Stainless Steel) **P. No. 45 / I No. 10.2.11 RDED SR (2010-11)**	No.	5				5	125.00	**625.00**
23	Pump Couping (Stainless Steel) **P. No. 44 / I No. 10.2.12 RDED SR (2010-11)**	No.	5				5	250.00	**1250.00**
24	Non – return valve (NRV) assembly complete with rubber 'O' Ring **P. No. 55 / I No. 10.2.14 PRED SR (2012-13)**	No.	5				5	1350.00	**6750.00**
25	Cable Guard **P. No. 55 / I No. 10.2.15 PRED SR (2012-13)**	No.	5				5	150.00	**750.00**
26	Strainer **P. No. 45 / I No. 10.2.15 RDED SR (2010-11)**	No.	5				5	150.00	**750.00**
27	Brass Filter **P. No. 55 / I No. 10.2.17 PRED SR (2012-13)**	No.	5				5	250.00	**1250.00**
28	Labour Chargesw (Over Hauling Only) **P. No. 45 / I No. 10.2.18 PRED SR (2010-11)**	No.	5				5	450.00	**2250.00**
	Re-erection charges of pumping machineries including overhauling and pointing **P. No. 56 / I No. 10.3.20 PRED SR (2012-13)**	Each	5				5	950.00	**4750.00**
	Lock Ring **P. No. 45 / I No. 10.3.11 PREC SR (2010-11)**	Each	10				10	75.00	**750.00**
	a) Carbon Housing **P. No. 46 / I No. 10.3.12 APRDED SR (2010-11)**	Each	5				5	450.00	**2250.00**
	Top Carbon/Ferrodo padding **P. No. 46 / I No. 10.3.12 APRDED SR (2010-11)**	Each	5				5	75.00	**375.00**
	Stud and Nuts **P. No. 45 / I No. 10.3.15 PRED SR (2010-11)**	Each	10				10	50.00	**500.00**
	Bearing (Gunmetal) Centrifugal) Cast Aluminium Bronxe, Beaing bush **P. No. 46 / I No. 10.3.16 APRDED SR (2010-11)**	Each	5				5	375.00	**1875.00**
	ircillps **P. No. 45 / I No. 10.3.17 PREC SR (2010-11)**	Each	10				10	50.00	**500.00**
	otor Base With Pin **P. No. 46 / I No. 10.3.18 RDED SR (2010-11)**	Each	5				5	450.00	**2250.00**
	enaral Itmes								

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Supply and delivery at site brand New texmo/ *innov/ Lubi/ Sabar / Atalanta/ Calamal/ make* suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 20 stage. **SE RDED Approved Rate PWD SR 2013-14 P. XXXXIII Sl No. 33 Kirloskar Pumps including of all taxes**	No							
	For Additional Motor 12.5 HP 25 Stage		2				**2**	63400.00	**126800.00**
	For Additional Motor 15 HP 30 Stage		6				**6**	75541.17	**453247.00**
	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel	No.							
			8				**8**	14800.00	**118400.00**
	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 49/ I No. 29-b(1) **4 Sqm mm of 56 strands 0.3mm dia Group - A KPWD Electrical SR 2010-11**	Mtr							
			1	2000.00			**2000.00**	185.00	**370000.00**
	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches .5m and above in width, in hard soil not xceeding 1.5 m in depth including dressing the ottom and sides of pits and trenches, stacking e excavated soil clear from edges of xcavation with lead upto 50m after breaking of ods complete as per specifications (P.NO - 5, NO - 2.4, PWD SR 13-14)	Cum							
			1	1200.00	0.45	0.75	405.00		
							405.00	223.66	**90582.00**

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Basic Rate	211.00							
6% area weightage	12.66							
Total	**223.66**							
Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 102, I.NO - 13.73.1, PWD SR 13-14)	Mtr							
75 mm dia 6 KSC PVC pipe								
		1	1200.00			1200.00		
						1200.00	352.98	**423576.00**
Basic Rate	333.00							
6% area weightage	19.98							
Total	**352.98**							
Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 13-14)	Cum							
		Qty. Vide Item No.				**405.00**	59.36	**24041.00**
Basic Rate	56.00							
6% area weightage	3.36							
Total	**59.36**							
Supplying and laying of L.T.U.G Cable having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (confirming to IS 1554) (P.NO - 553, I.NO - 10 (d), BWSSB SR 13-14)	Mtr							
For Additional UG Cable		1	500.00			**500.00**	169.95	**84975.00**
Basic Rate	165							
3% area weightage	4.95							
Total	169.95							
Providing and fixing of 50mm GI bend to motor PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE)	No's							
		74				**74.00**	232.14	**17178.00**
Basic Rate	219							
6% area weightage	13.14							
Total	232.14							
roviding and fixing of 50mm GI Nipple to motor WD SR 13-14, P.NO.XXXVIII GI FITTINGS ABLE)	No's							
		70				**70.00**	110.56	**7739.00**
Basic Rate	104.3							
6% area weightage	6.26							
Total	110.56							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
43	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- **control panel board** unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. **PRED Bangalore Circle SE Approved Date 30.07.2010 15HP to 30 HP Star Delta Starter**	No.	70				70	237.12	16599.
	For Existing Borewells		3				3	10000.00	30000.00
44	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... **P No. 32/I No 3d KPWD Electrical SR 2010-11**	No							
	100 Amps		35				35	415.00	14525.00
	PWD SR 13-14)	Each	50						321. 79129.00
									485.00
45	Miscellaneous and Unforeseen Charges							Total	2000000.00

Providing & fixing of 50mm GI union to the motor (PWD SR-13-14, P.No. XXXVIII GI fittings table).

Basic Rate = 223.7
6% = 13.42
237.12

Specification No KBS. 13.26 | 13.3 P-97 | 13.37
Basic Rate: 1493 + 6% (89.58) = 1582.58

Providing & fixing in position brass gate value with CI wheel of approved quality (screwed end) 50 mm nominal bore including cost of all materials Labour & Hire of equipments with all leads complete as per specifications

(Rupees Twenty Lakhs Only)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of PRED & PWD for the year 2012.13, Bangalore Circle.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division
Bangalore-24

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
Bangalore-92

Technical Sanction for Rs. 20.00 lakhs
Twenty lakhs only

Selyel/40/13-14,

Selyel/40/13-14, 23.11.13.

EE (BTP.Div.)

Superintending Engineer
Yelahanka Zone
BBMP Bangalore-92

ADMINISTRATIVELY SANCTIONED FOR Rs. 20.00 lakh
Rupees Twenty lakhs Only

Under EE(B)

Registered ( ) No. ...
Subject : conditions ... in
enclosed memo EE ( ) No. ... dt. ...
Dt. ... Estimated
JC(W)/BBMP/AS.437/13-14
dated 5-11-2013 Rs. 20.00 lakh

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92